# Supplementary material - A

Geographic distribution of the studies evaluated in the literature review (black spots). Colored areas sign the main Brazilian biomes.



Number of studies per year regarding the ecology of small mammals. During 1966-1979 and in 1992 years we did not find any report.

Studies developed in Brazil on small mammals, the respective baits and traps used, and strata sampled. \* Reference numbering for the location on the map with the locations where the studies were developed, presented in Annex V. AM - amazônia; CA - caatinga; EC - closed; PA - pantanal; MA - Atlantic Forest; Af - photographic traps; Ag - galvanized wire traps; Hv - traps of the havahart type; Mv - movart; Ni - not informed by the authors; Pt - pitfalls; Sh - shermans; St - snap traps; Tw - Tomahawks; Yn-young; (1) - traps placed on the ground; (2) - sub-forest; (3) canopy. Studies that used canopy traps for specific sampling of arboreal species are highlighted in bold. The full references of the studies consulted are presented at the end of the Annex.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Study** | **#** | **Biome** | **Bait items** | **Traps** | **Forest strata** |
|  |  |  | **Banana** | **Pineapple**  | **Orange** | **Papaya** | **Mango** | **Sweet potato** | **Pumpkin**  | **Manioc** | **Peanut**  | **Brazil nuts** | **Cocoa** | **Coconut** | **Bacon** | **Meat** | **Cod liver oil** | **Vanilla**  | **Oil** | **Animal food** | **Sardine** | **Corn** | **Oat** | **Seeds** | **Corn meal** | **Raisins** | **Honey** |  |  |
| Alho 1981 | 1 | CE |  |  |  |  |  |  |  |  | X |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Ag  | 1 |
| Alho & Souza 1982 | 2 | CE | X |  |  |  |  |  |  |  | X |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Ni | Ni |
| Alho & Pereira 1985 | 3 |  |  |  |  |  |  |  |  |  | X |  |  |  |  |  |  |  |  |  |  |  |  | X |  |  |  | Ag | 1 |
| **Alho *et al.* 1986** | 4 | CE |  |  |  |  |  |  |  |  | X |  |  |  |  |  |  |  |  |  |  |  |  | X |  |  |  | Ag  | 1 |
| Antunes et al 2010 | 5 | MA  | X |  |  |  |  |  |  |  | X |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Ag  | 1,2 |
| Asfora & Pontes 2009 | 6 | MA  |  | X |  |  |  |  |  |  | X |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Ag  | 1,2 |
| **Astúa de Moraes *et al.* 2006** | 7 | MA  |  |  |  |  |  |  |  |  | X |  |  |  | X |  |  |  |  |  |  |  |  |  |  |  |  | Sh, Tw | 1,2 |
| Barnett & Cunha 1994 | 8 | AM | X |  |  |  | X |  |  |  |  |  |  |  |  |  |  |  |  |  | X |  | X |  |  |  |  | St | 1, 2  |
| **Barros-Battesti *et al.* 2000** | 9 | MA  |  |  |  |  |  |  |  |  |  |  |  |  | X |  |  |  |  |  |  | X |  |  |  |  |  | Ag  | 1 |
| Bergallo 1994 | 10 | MA  | X |  |  |  |  |  |  | X | X |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Ag  | 1 |
| Bergallo 1996 | 11 | MA  | X |  |  |  |  |  |  | X | X |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Ag  | 1 |
| Bergallo & Magnusson 1999 | 12 | MA  | X |  |  |  |  |  |  | X | X |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Ni | 1 |
| Bittencourt & Rocha 2003 | 13 | MA  | X |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Sh, Yn | 1 |
| **Briani *et al.* 2001** | 14 | MA  | X |  |  |  |  |  |  | X | X |  |  |  |  |  | X |  |  |  |  |  | X |  | X |  |  | Ag, Sh  | 1 |
| **Briani *et al.* 2004** | 15 | CE | X |  |  |  |  |  |  |  | X |  |  |  |  |  |  |  |  |  | X | X |  |  |  |  |  | Sh | 1 |
| **Bonecker *et al.* 2009** | 16 | MA  | X |  |  |  |  |  |  |  | X |  |  |  | X |  |  |  |  |  |  |  | X |  |  |  |  | Sh, Tw | 1 |
| **Bonvicino *et al.* 1997** | 17 | MA  | X |  |  |  |  |  |  |  | X |  |  |  |  |  |  |  |  |  |  | X |  | X |  |  |  | Ag, Sh, St, Tw | 1 |
| **Bonvicino *et al.* 2005** | 18 | CE | X |  |  |  |  |  |  |  | X |  |  |  | X |  |  |  |  |  |  |  | X |  |  |  |  | Sh, Tw | 1 |
| Borchert & Hansen 1983 | 19 | CE |  |  |  |  |  |  |  |  | X |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Sh | 1 |
| **Cáceres *et al.* 2008** | 20 | CE - MA  |  |  |  |  |  |  | X |  |  |  |  |  | X |  | X |  |  |  |  |  |  |  |  |  |  | Ag, Pt, Sh | 1 |
| **Cáceres *et al.* 2011** | 21 | CE |  |  |  |  |  |  | X |  | X |  |  |  | X |  | X |  |  |  |  |  |  |  |  |  |  | Ag, Pt, Sh | 1, 2  |
| **Cáceres *et al.* 2011** | 22 | PA | X |  |  |  |  |  |  |  |  |  |  |  | X |  | X |  |  |  |  |  |  |  |  |  |  | Ag, Pt, Sh  | 1 |
| Cáceres & Monteiro-Filho 1998 | 23 | MA  | X |  |  |  |  |  |  |  | X |  |  |  |  |  | X |  |  |  |  |  |  |  |  |  |  | Ag  | 1 |
| **Cademartori *et al.* 2004** | 24 | MA  | X |  |  |  |  |  |  |  | X |  |  |  |  |  |  |  |  |  |  | X |  |  |  |  |  | Tw | 1 |
| Caldara & Leite 2007 | 25 | MA  |  | X |  |  |  |  |  |  | X |  |  |  |  |  |  |  |  |  |  |  | X |  |  |  |  | Mv | 1, 2  |
| Câmara & Lessa 1994 | 26 | CE |  | X | X |  |  |  |  |  |  |  |  |  |  |  | X |  |  |  |  |  |  |  |  |  |  | Mv | 1, 2  |
| Carvalho 1965 | 27 | MA  |  |  |  |  |  |  |  | X | X |  |  |  |  |  |  |  |  |  |  | X |  |  |  |  |  | Ag  | 1 |
| **Cerqueira *et al.* 1990** | 28 | MA  | X |  |  |  |  | X |  | X | X |  |  |  | X |  |  |  |  |  |  | X |  |  |  |  |  | Ag  | 1 |
| **Cerqueira *et al.* 1993** | 29 | MA  | X |  |  |  |  |  |  | X | X |  |  |  | X |  |  |  |  |  |  | X |  |  |  |  |  | Ag  | 1 |
| Cherem 2005 | 30 | MA  | X |  |  |  |  |  |  |  | X |  |  |  | X |  |  |  |  |  |  | X |  |  |  |  |  | Sh, Tw | 1, 2 |
| Cherem & Perez 1996 | 31 | MA  | X | X | X | X |  |  |  |  | X |  |  |  |  | X |  |  |  |  |  | X |  |  |  |  |  | Ag | 1, 2  |
| Dalmagro & Vieira 2005 | 32 | MA  | X |  |  |  |  |  |  |  | X |  |  |  |  |  | X | X |  |  |  | X |  |  |  |  |  | Ag, Sh | 1 |
| **D'Andrea *et al.* 1999** | 33 | MA  | X |  |  |  |  |  |  | X | X |  |  |  | X |  |  |  |  |  |  |  | X |  |  |  |  | Ag | 1 |
| **D'Andrea *et al.* 2007** | 34 | MA  | X |  |  |  |  |  |  | X | X |  |  |  | X |  |  |  |  |  |  |  | X |  |  |  |  | Ag | 1 |
| Emmons 1984 | 35 | AM | X |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Ag | 1 |
| **Feliciano *et al.* 2002** | 36 | MA  | X | X |  |  |  |  |  | X | X |  |  |  | X |  | X |  |  |  |  |  | X |  |  |  |  | Sh | 1 |
| **Freitas *et al.* 2005** | 37 | CA | X |  |  |  |  |  |  |  | X |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Hv, Sh, Tw | 1, 2  |
| Fonseca & Kierulff 1989 | 38 | MA  |  | X |  |  |  |  |  |  |  |  |  |  |  |  | X |  |  |  |  |  | X |  |  |  |  | Sh, Tw | 1, 2  |
| **Geise *et al.* 2004** | 39 | MA  | X |  |  |  |  |  |  | X | X |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Sh | 1, 2  |
| Geise & Pereira 2008 | 40 | MA  | X |  |  |  |  |  |  |  | X |  | X |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Sh, Tw | 1, 2  |
| **Geise *et al.* 2010** | 41 |  | X |  |  |  |  |  |  | X | X |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Sh, Tw | 1, 2  |
| Gentile & Fernandez 1999 | 42 | MA  | X |  |  |  |  |  |  | X | X |  |  |  | X |  |  |  |  |  |  |  | X |  |  |  |  | Ag | 1 |
| **George *et al.* 1988** | 43 | AM | X |  |  | X |  |  |  |  | X |  |  |  |  |  |  |  |  |  |  |  | X |  |  |  |  | Ag | Ni |
| **Gheler-Costa *et al.* 2002** | 44 | MA  | X |  |  |  |  |  |  |  | X |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Ag | 1 |
| **Gomes *et al.* 2003** | 45 | MA  | X |  |  |  |  |  |  |  | X |  |  |  | X |  |  |  |  |  |  |  | X |  |  |  |  | Ag, Sh, Tw | 1 |
| **Goulart *et al.* 2006** | 46 | MA  | X |  |  |  |  |  |  |  | X |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Yn | 1, 2  |
| Graipel 2003 | 47 | MA | X |  |  |  |  |  |  |  | X |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Ag | 1, 2, 3 |
| **Graipel *et al.* 2003** | 48 | MA  | X |  |  |  |  |  |  |  | X |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Ag | 1, 2  |
| Graipel & Santos-Filho 2006 | 49 | MA  |  |  |  |  |  |  |  |  |  |  |  |  | X |  |  |  |  |  |  |  |  |  |  |  |  | Yn | 1 |
| Grelle 2003 | 50 | MA  |  | X |  |  |  |  |  |  |  |  |  |  |  |  | X |  |  |  |  |  | X |  |  |  |  | Ag | 1, 2, 3 |
| Hannibal & Caceres 2010 | 51 | CE | X |  |  |  |  |  | X |  |  |  |  |  | X |  | X |  |  |  |  |  |  |  |  |  |  | Ag, Sh | 1, 2, 3 |
| **Henriques *et al.* 2006** | 52 | CE | X |  |  |  |  |  |  |  | X |  |  |  |  |  |  |  |  |  | X | X | X |  |  |  |  | Sh | 1 |
| Herrera et al 2005 | 53 | CA | X |  |  |  |  |  |  |  | X |  |  |  | X |  |  |  |  |  |  |  | X |  |  |  |  | Sh, Tw | 1 |
| Lacher & Alho 1989 | 54 | CE |  |  |  |  |  |  |  |  | X |  |  |  |  |  |  |  |  |  |  |  |  | X |  |  |  | Ni | 1 |
| Lacher & Alho 2001 | 55 | AM |  |  |  |  |  |  |  |  | X |  |  |  |  |  |  |  |  |  |  | X |  |  |  |  |  | Ag, Sh | 1 |
| **Lambert *et al.* 2005** | 56 | AM | X |  |  |  |  |  |  |  | X |  |  |  |  |  |  |  |  |  |  |  | X |  |  |  |  | Sh, Tw | 1, 2  |
| Leiner & Silva 2007 | 57 | MA  | X |  |  |  |  |  |  |  | X |  |  |  | X |  |  |  |  |  |  |  | X |  |  |  |  | Sh | 1, 2  |
| **Leite *et al.* 1996** | 58 | MA  | X |  |  |  |  |  |  |  |  |  |  |  |  |  | X |  |  |  |  |  | X |  |  |  |  | Ag, Sh | 1, 2, 3 |
| **Lima *et al.* 2010** | 59 | MA  |  |  |  |  |  |  | X |  |  |  |  |  | X |  |  |  |  |  | X |  |  |  |  |  |  | Ag, Pt | 1 |
| Lyra-Jorge & Pivello 2001 | 60 | CE |  |  |  |  |  |  |  | X | X |  |  |  |  |  |  |  |  | X | X | X |  |  |  |  |  | Ag, Pt | 1 |
| **Macedo *et al.* 2007** | 61 | MA | X |  |  |  |  |  |  |  | X |  |  |  | X |  |  |  |  |  |  |  | X |  |  |  |  | Sh, Tw | 1, 2, 3 |
| **Magnusson *et al.* 1995** | 62 | AM - CE |  |  |  |  |  |  |  |  | X | X |  |  |  |  |  |  |  |  |  |  | X |  |  |  |  | Sh | 1 |
| Malcolm 1988 | 63 | AM | X |  |  |  |  |  |  |  | X |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Sh, Tw | 1, 2  |
| Malcolm 1991 | 64 | AM | X |  |  |  |  |  |  |  | X |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Sh, Tw | 1, 2, 3 |
| Malcolm 1997 | 65 | AM | X |  |  |  |  |  |  |  | X |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Sh, Tw | 1, 2, 3 |
| Mares & Ernest 1995 | 66 | CE |  | X |  |  |  |  |  |  | X | X |  |  |  |  |  |  |  |  |  |  | X |  |  |  |  | Sh, Tw | 1, 2  |
| Melo 1980 | 67 | CE | X |  |  | X |  | X | X | X |  |  |  |  |  |  |  |  |  |  |  | X |  |  |  |  |  | Yn | 1 |
| **Melo *et al.* 2011** | 68 | MA  |  |  |  |  |  |  | X |  | X |  |  |  | X |  |  |  |  |  |  |  |  |  |  |  |  | Ag, Pt, Sh | 1, 2  |
| **Modesto *et al.* 2008** | 69 | MA  | X |  |  |  |  |  |  |  | X |  |  |  |  |  |  |  | X |  | X |  |  |  | X |  |  | Pt, Sh, Tw | 1, 2  |
| **Moraes *et al.* 2003** | 70 | MA  | X |  |  |  |  |  |  | X | X |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Sh | 1 |
| Moraes Jr. & Chiarello 2005 | 71 | MA  | X |  |  |  |  |  |  |  |  |  |  |  |  |  | X |  |  |  |  |  |  |  |  |  |  | Ag  | 1, 2  |
| **Moreira *et al.* 2009** | 72 | MA  | X |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | X | X |  |  |  |  |  | Sh, Tw | 1 |
| Nitikman & Mares 1987 | 73 | CE |  |  |  |  |  |  |  |  | X |  |  |  |  |  |  |  |  |  |  |  | X |  |  |  |  | Sh | 1, 2  |
| **Olifiers *et al.* 2007** | 74 | MA  | X |  |  |  |  |  |  |  | X |  |  |  | X |  |  |  |  |  |  |  | X |  |  |  |  | Sh, Tw | 1, 2, 3 |
| **Oliveira-Santos *et al.* 2008** | 75 | MA  | X |  |  |  |  |  |  |  | X |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | AF | 2 |
| Olmos 1991 | 76 | MA  | X |  |  |  |  |  |  | X | X |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Ni | 1 |
| **Paglia *et al.* 1995** | 77 | MA  | X |  |  |  |  |  |  |  |  |  |  |  |  |  | X |  |  |  |  | X | X |  |  |  |  | Ag , Sh | 1, 2  |
| Pardini 2004 | 78 | MA  | X |  |  |  |  |  |  |  | X |  |  |  |  |  |  |  |  |  | X |  | X |  | X |  |  | Pt, Sh | 1, 2  |
| Pardini & Umetsu 2006 | 79 | MA  | X |  |  |  |  |  |  |  | X |  |  |  |  |  |  |  |  |  | X |  |  |  | X |  |  | Pt, Sh | 1, 2  |
| Passamani 1995 | 80 | MA  | X |  |  |  |  |  |  |  |  |  |  |  |  |  | X |  |  |  |  |  |  |  |  |  |  | Ag  | 1, 2, 3 |
| Passamani 2004 | 81 | CE | X |  |  |  |  |  |  | X | X |  |  |  |  |  | X |  |  |  |  |  | X |  | X |  |  | Ag , Pt, Sh | 1, 2  |
| **Passamani *et al.* 2000** | 82 | MA  | X | X |  |  |  |  |  |  | X |  |  |  |  | X | X |  |  |  |  |  |  |  |  |  |  | Ag  | 1, 2  |
| **Passamani *et al.* 2005** | 83 | MA  | X |  |  |  |  |  |  |  |  |  |  |  |  |  | X |  |  |  |  |  |  |  |  |  |  | Ag , Sh | 1, 2, 3 |
| Passamani & Ribeiro 2009 | 84 | MA  | X |  |  |  |  |  |  |  |  |  |  |  |  |  | X |  |  |  |  |  |  |  |  |  |  | Ag , Sh | 1, 2  |
| Passamani & Fernandez 2011 | 85 | MA  | X |  |  |  |  |  |  |  |  |  |  |  |  |  | X |  |  |  |  |  |  |  |  |  |  | Ag , Sh | 1, 2, 3 |
| **Patton *et al.* 2000** | 86 | AM | X |  |  |  |  |  |  |  | X |  |  |  |  |  |  |  | X |  |  |  | X |  |  |  | X | Sh, Tw | 1, 3 |
| **Pedó *et al.* 2010** | 87 | MA  |  |  |  |  |  |  |  | X | X |  |  |  |  |  |  |  |  |  | X | X |  | X |  |  | X | Ag  | 1 |
| Pereira & Geise 2009 | 88 | CA | X |  |  |  |  |  |  | X | X |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Pt, Sh, Tw | 1, 2  |
| Pinheiro & Geise 2008 | 89 | MA  | X |  |  |  |  |  |  | X | X |  |  |  | X |  |  |  |  |  |  |  |  |  |  |  |  | Sh, Tw | 1, 2  |
| **Pinto *et al.* 2009** | 90 | MA  | X |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Ag, Sh | 1, 2  |
| **Prevedello *et al.* 2009** | 91 | MA  | X |  |  |  |  |  |  |  |  |  |  |  |  |  | X |  |  |  |  | X |  |  |  |  |  | Ag  | 1, 2  |
| **Püttker *et al.* 2008** | 92 | MA  | X |  |  |  |  |  |  |  | X |  |  |  |  |  |  |  |  |  | X |  | X |  |  |  |  | Sh | 1, 2  |
| **Rademaker *et al.* 2009** | 93 | PA | X |  |  |  |  |  |  |  | X |  |  |  | X |  |  |  |  |  |  |  | X |  |  |  |  | Sh, Tw | 1, 2  |
| Ribeiro & Marinho-Filho 2005 | 94 | CE | X |  |  |  |  |  |  |  | X |  |  |  |  |  |  |  |  |  | X |  |  |  | X |  |  | Sh | 1 |
| **Rocha *et al.* 2011** | 95 | CE |  | X |  |  |  |  |  |  | X |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Pt, Sh, Tw | 1, 2  |
| **Santos-Filho *et al.* 2006** | 96 | CE | X |  |  |  |  |  |  |  | X |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Pt, Sh, St, Tw | 1, 2  |
| **Santos-Filho *et al.* 2008** | 97 | CE - AM | X |  |  |  |  |  |  |  | X |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Pt, Sh, St, Tw | 1, 2  |
| Sousa & Gonçalves 2004 | 98 | MA  |  |  |  |  |  |  |  |  | X |  |  |  |  |  |  |  |  |  | X |  |  |  |  |  |  | Pt, Sh | 1 |
| Stallings 1989 | 99 | MA  |  | X |  |  |  |  |  |  |  |  |  |  |  |  | X |  |  |  |  |  | X |  |  |  |  | Ag , Sh | 1, 2, 3 |
| Stevens & Husband 1998 | 100 | MA  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | X |  | X | X |  |  | X |  | Sh, Tw | 1, 2  |
| Streilen 1982 | 101 | CA |  | X |  |  |  |  |  |  | X | X |  |  |  |  |  |  |  |  |  | X |  |  |  |  |  | Ag, Sh | 1 |
| Talamoni & Dias 1999 | 102 | CE | X |  | X |  |  |  |  |  | X |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Ag  | 1 |
| **Umetsu *et al.* 2006** | 103 | MA  | X |  |  |  |  |  |  |  | X |  |  |  |  |  |  |  |  |  | X |  | X |  | X |  |  | Pt, Sh | 1, 2  |
| Umetsu & Pardini 2007 | 104 | MA  | X |  |  |  |  |  |  |  | X |  |  |  |  |  |  |  |  |  | X | X |  |  |  |  |  | Sh | 1, 2  |
| Vera y Conde & Rocha 2006 | 105 | MA  | X |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Mv, Sh | 1, 2  |
| Vieira & Baumgarten 1995 | 106 | CE |  |  |  |  |  |  |  |  | X |  |  |  |  |  |  |  |  |  | X | X |  |  |  |  |  | Ag | 1 |
| Vieira & Monteiro-Filho 2003 | 107 | MA  | X |  |  |  |  |  |  |  | X |  |  |  |  |  | X | X |  |  |  | X |  |  |  |  |  | Ag, Sh | 1, 2, 3 |
| **Vieira *et al.* 2004** | 108 | CE, MA | X | X |  |  |  | X |  | X | X |  |  |  | X |  | X |  |  |  |  |  | X |  |  |  |  | Ni | 1, 2  |
| Vieira 1997 | 109 | CE | X |  |  |  |  | X |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Tw | 1 |
| Vieira 1999 | 110 | CE |  |  |  |  |  |  |  |  | X |  |  |  |  |  |  |  |  |  |  | X |  |  |  |  |  | Ag  | 1 |
| Viveiros de Castro & Fernandes 2004 | 111 | MA  | X |  |  |  |  |  |  | X | X |  |  |  | X |  |  |  |  |  |  |  | X |  |  |  |  | Sh, Tw | 1, 2, 3 |
| Voss & Emmons 1996 | 112 | AM | X |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Tw | 1, 2  |
| **Voss *et al.* 2001** | 113 | AM | X |  |  |  |  |  |  |  |  |  |  | X |  |  |  |  |  |  |  |  |  |  |  |  |  | Pt, Sh, Tw | 1, 2  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Total** |  |  | **81** | **13** | **3** | **2** | **1** | **3** | **5** | **22** | **84** | **3** | **1** | **1** | **27** | **2** | **24** | **2** | **2** | **2** | **16** | **23** | **34** | **5** | **7** | **1** | **2** |  |  |

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# Supplementary material - B

Number of studies per biome in Brazil, mean ± SE of food items used as baits (Baits), classification according to main subject areas (Ecol – Ecological studies; Surv – Faunal surveys), application of methodological tests (MT); use of complementary sampling methods (CM), and use of traps for arboreal small mammals (Can).

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Total** | **Baits** | **Ecol.** | **Surv.** | **MT** | **CM** | **Can.** |
| **Amazônia** | 13 | 2.58 ± 1.24 | 8 | 5 | 0 | 2 | 3 |
| **Caatinga** | 5 | 3.2 ± 0.84 | 2 | 3 | 0 | 1 | 0 |
| **Cerrado** | 27 | 3.26 ± 1.68 | 19 | 5 | 3 | 7 | 1 |
| **Mata Atlântica** | 69 | 3.49 ± 1.51 | 49 | 16 | 4 | 9 | 11 |
| **Pantanal** | 2 | - | 2 | 0 | 0 | 1 | 0 |
| **Total** | 113 | 3.32 ± 1.51 | 80\* | 29\* | 7\* | 20\*\* | 15 |

\* one of the studies comprised two biomes, so it was counted twice.

\*\* two studies were developed at two biomes, thus we counted both twice.

Quantitative data concerning Ecological and Fauna Survey studies. D – Duration; F/y – Field trips per year; S – Success; E – Sampling effort (trap\*nights); SD – Standard deviation.

|  |  |  |
| --- | --- | --- |
|  | **Ecological Studies** | **Fauna Surveys** |
|  | D | F/y | S | E | D | F/y | S | E |
| **Mean** | 19.5 | 9.3 | 7.12% | 12,287 | 9.8 | 4.3 | 5.42% | 7,423 |
| **SD** | 16.9 | 5.8 | 6.94% | 13,740 | 11.6 | 3.5 | 4.37% | 11,246 |
| **Maximum** | 82 | 48 | 39.05% | 57,120 | 48 | 12 | 20.32% | 46,000 |
| **Minimum** | 1 | 2 | 0.44% | 880 | 1 | 1 | 0.37% | 616 |

Small mammal studies per Brazilian biomes from 1965 to 2011 that only used peanut (P), only banana (B) or that used both baits (PB); SampE – Mean ± SE sampling effort (total trap-nights); CS - capture success (number of studies/SampE).

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **P** | **B** | **PB** | **SampEP** | **SampEB** | **SempEPB** | **CSP** | **CSB** | **CSPB** |
| **Amazon** | 2 | 4 | 6 | 7,818 ± 4,521 | 5,783 ± 2,122 | 21,966 ± 18,844 | 4.02%\* | 2.41 ± 0.91% | 8.06 ± 7.12 % |
| **Caatinga** | 1 | 0 | 4 | 24,874 | - | 6,478 ± 4,171 | \*\* | - | 3.45 ± 2.46 % |
| **Cerrado** | 12 | 3 | 8 | 15,769 ± 17,120 | 7,176 ± 4,336 | 8,308 ± 7,740 | 5.36 ± 4.8 % | 4.48 ± 3.32 % | 5.61 ± 2.29% |
| **Atlantic Forest** | 7 | 12 | 41 | 4,012 ± 2,101 | 6,951 ± 9,982 | 11,362 ± 12,772 | 6.68 ± 6.53% | 6.29 ± 5.38% | 9.05 ± 8.15% |

\* Just one study clearly showed capture success.

\*\* Not given by authors.

# Supplementary material - C

|  |  |
| --- | --- |
|  |  |
|  |  |
| Bait use frequency for attraction and capture of small mammals in Brazil. Figures A, B, C and D indicate the situations in each biome. |

Bait use frequency for attracting and capturing small mammals in Ecological studies (A) and Fauna surveys (B) performed in Brazil during the last 35 years.

# Supplementary material - D

Table VI. Data summary of the small mammal population-monitoring program (PMP) developed at Garrafão locality, Serra dos Órgãos National Park, Rio de Janeiro, Brazil. We also present the data summary of the bait test carried out at the same site. Bait test data are presented combined, and splited, to the pasta results (bait test pasta), bait shared with the PMP. US – understory; Can – canopy; Sample effort – showed in total traps-nights; PMP – 12 campaigns (Feb 2009 to Dec 2010); Restricted PMP – 3 field trips (Apr, Jun, Aug 2010); in parenthesis – number of exclusive species per stratum.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Study** | **Abundance** | **Captures** | **Effort** | **Capture Success** | **Richness** |
|  | US | Can | US | Can | US | Can | US | Can | US | Can |
| **PMP** | 85 | 43 | 159 | 92 | 4.500 | 4.680 | 3,53% | 1,97% | 7(2) | 6(1) |
| **PMP (restricted)** | 29 | 16 | 45 | 30 | 1.125 | 1.170 | 4% | 2,5% | 4(0) | 6(2) |
| **Bait test (*pasta*)** | 16 | 15 | 27 | 23 | 360 | 360 | 7,5% | 6,39% | 7(4) | 5(2) |
| **Bait test** | 51 | 46 | 78 | 80 | 1.440 | 1.440 | 5,41% | 5,55% | 10(5) | 5(0) |

Captured individuals (Ind.) in the understory and canopy during 12 PMP field trips (Feb 2009 - Dec 2010), at Garrafão locality, Serra dos Órgãos National Park, Rio de Janeiro, Brazil. Capt. - number of captures; CS - Capture success. Capture events on the ground are only presented for arboreal species.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Species** | **Ind.** | **Ground** | **Understory** | **Canopy** |
|  |  | Ind. | Capt. | SC\* | Ind. | Capt. | SC\* | Ind. | Capt. | CS\* |
| ***Caluromys philander*** | 1 | - | - | - | - | - | - | 1 | 2 | 0,04% |
| ***Didelphis aurita*** | 5 | - | - | - | 4 | 4 | 0,09% | 1 | 1 | 0,02% |
| ***Juliomys pictipes*** | 4 | - | - | - | 4 | 4 | 0,09% | - | - | - |
| ***Marmosa paraguayana*** | 56 | 9 | 10 | 0,10% | 24 | 59 | 1,30% | 23 | 58 | 1,24% |
| ***Marmosops incanus*** | 86 | 50 | 66 | 0,67% | 35 | 55 | 1,20% | 1 | 1 | 0,02% |
| ***Philander quica*** | 4 | - | - | - | 2 | 2 | 0,05% | 2 | 4 | 0,08% |
| ***Rhipidomys itoan*** | 43 | 12 | 15 | 0,15% | 16 | 35 | 0,78% | 15 | 26 | 0,56% |
| ***Total*** | *-* | *71* | *91* | *0,92%* | *85* | *159* | *3,53%* | *43* | *92* | *1,97%* |

\* Sampling effort: ground – 9,900 trap-nights; understory – 4,500; canopy – 4,680.

Total number of captures of arboreal small mammal per trap and stratum during the Population Monitoring Program (PMP) and the bait test (Test\*), at Garrafão locality, Serra dos Órgãos National Park, Rio de Janeiro, Brazil. Understory captures were not included, since only Sherman traps were employed in this stratum. Sh – Sherman traps; Tw – Tomahawk traps.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Species** | **PMP (ground)** | **PMP (canopy)** | **Test****(*pasta*)** | **Test (*banana*)** | **Test (pineapple)** |
|  | Sh | Tw | Sh | Tw | Sh | Tw | Sh | Tw | Sh | Tw |
| ***Caluromys philander*** | - | - | 1 | 1 | 2 | 2 | 19 | 7 | - | 4 |
| ***Marmosa paraguayana*** | 9 | 1 | 44 | 14 | 5 | - | 10 | 2 | 2 | 1 |
| ***Marmosops incanus*** | 61 | 5 | 1 | - | - | - | - | - | - | - |
| ***Rhipidomys itoan*** | 13 | 2 | 13 | 13 | 2 | 5 | 1 | - | 4 | 2 |
| ***Total*** | *83* | *8* | *59* | *28* | *9* | *7* | *30* | *9* | *6* | *7* |

\*we excluded, for simplicity, the only 3 captures obtained with meat bait.